

2012

2011-2012 Modulus

Rose-Hulman Institute of Technology

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Recommended Citation

Rose-Hulman Institute of Technology, "2011-2012 Modulus" (2012). *Modulus (Yearbooks)*. 73.
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modulus





Modulus 11-12

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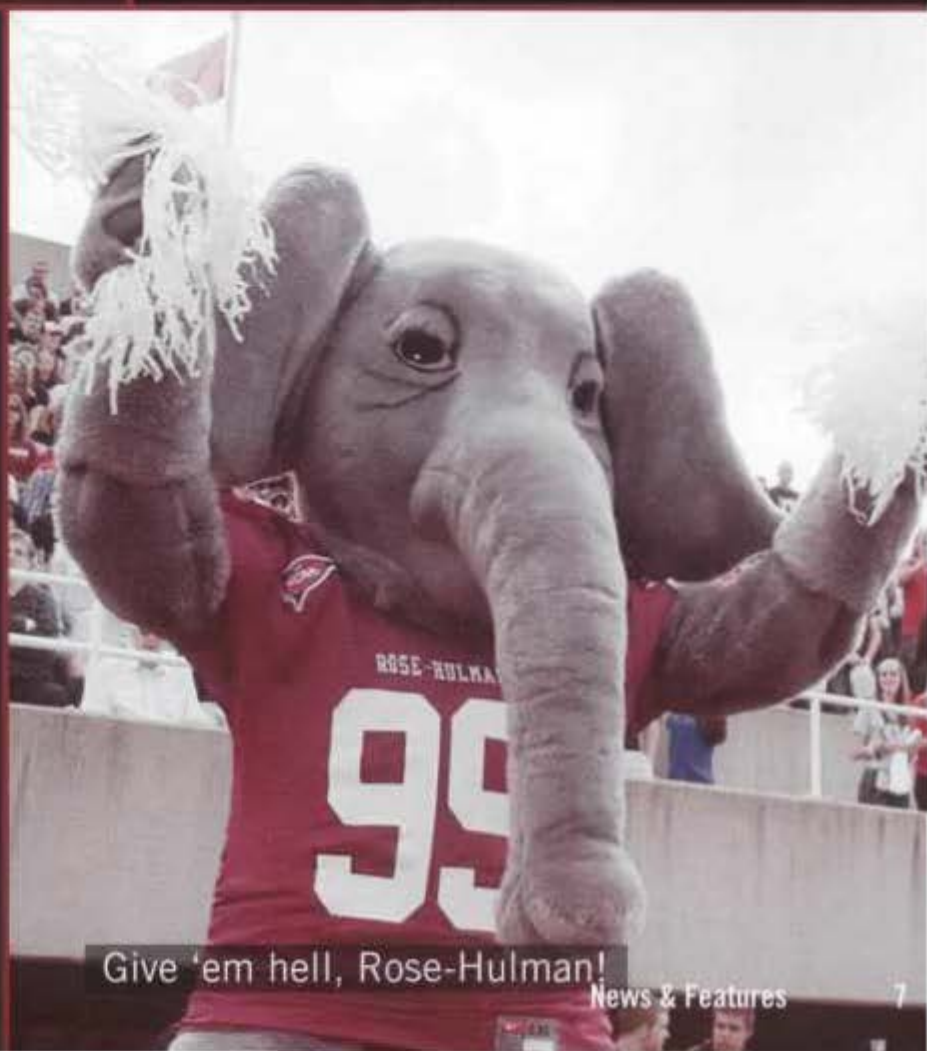


Homecoming Queen Sadie Geerligs



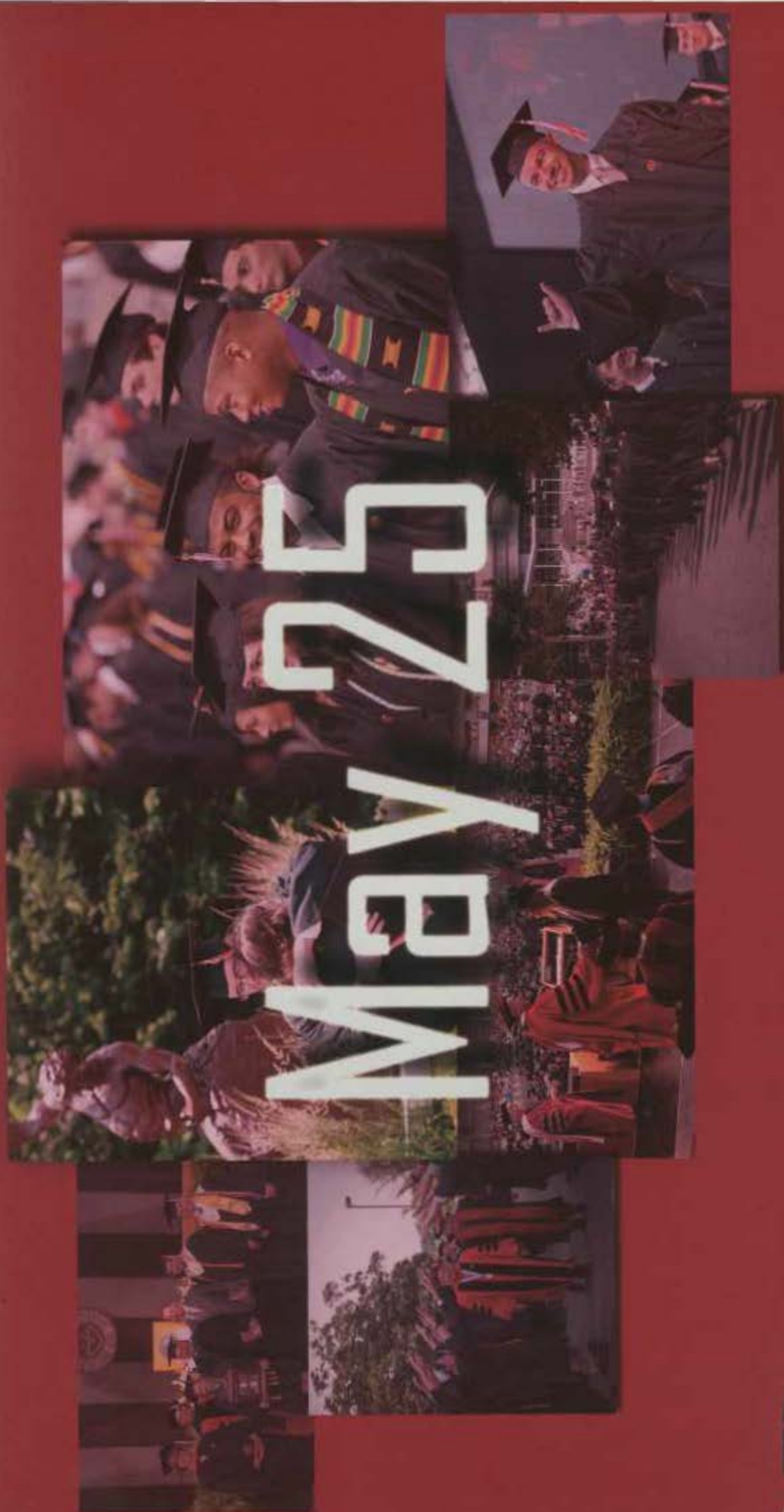
Dr. Michio Kaku

Homecoming 2011 saw the crowning of senior Sadie Geerligs as Homecoming Queen. After she received her crown, students, faculty, and alumni were greeted by a massive fireworks display before the lighting of this year's bonfire. The bonfire represents a combined effort of unity and teamwork by the new additions to the Rose-Hulman family. Earlier in the day, Michio Kaku shared words of encouragement and invigoration with the community. On Saturday, alumni got to witness a victorious 31-20 homecoming football game played by their Fightin' Engineers.



Give 'em hell, Rose-Hulman!





Commencement 2012

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News & Features



DAY OF SERVICE

FALL 2011



Students and faculty alike took to the streets from 9 a.m. to 1 p.m. during the annual Rose Day of Service, sponsored by ArcelorMittal. They spread throughout the Terre Haute area to help citizens in need and offer assistance to those less fortunate. One of the students who contributed to the Day of Service was sophomore mechanical engineering major Tyler Schluseman, who was eager to return to the event this year and lead a group of Pi Kappa Alpha brothers in serving the community.



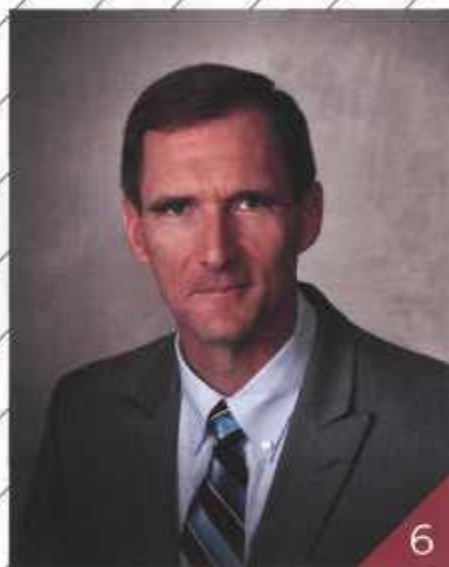
"Not only is it a good opportunity to give back to the community," he said, "but it is also a good reminder that there is a world outside of Rose, which can often be forgotten or overlooked in the face of homework and tests." Schluseman's assignment was just one of 26 sites - like New Life Christian Fellowship, The Boys and Girls Club of Terre Haute, and Ryves Hall - where over 300 Rose-Hulman students and faculty worked together to aid the Terre Haute community. "I enjoyed giving back to Terre Haute and those in need," he said, "I think I can speak for everyone when I say we had fun."



Rose-Hulman has created a number of new administrative positions in the past two years. Some of these positions are externally-focused, like the new Vice-President for Communications and Marketing position; others, internally focused, like the Associate Dean of Global Programs. Some were staffed with long-time Rose-Hulman community members; others were external hires. But regardless of focus or origin, all the new positions are working hard to make Rose-Hulman truly great.

New Administrative Positions 2011-2012

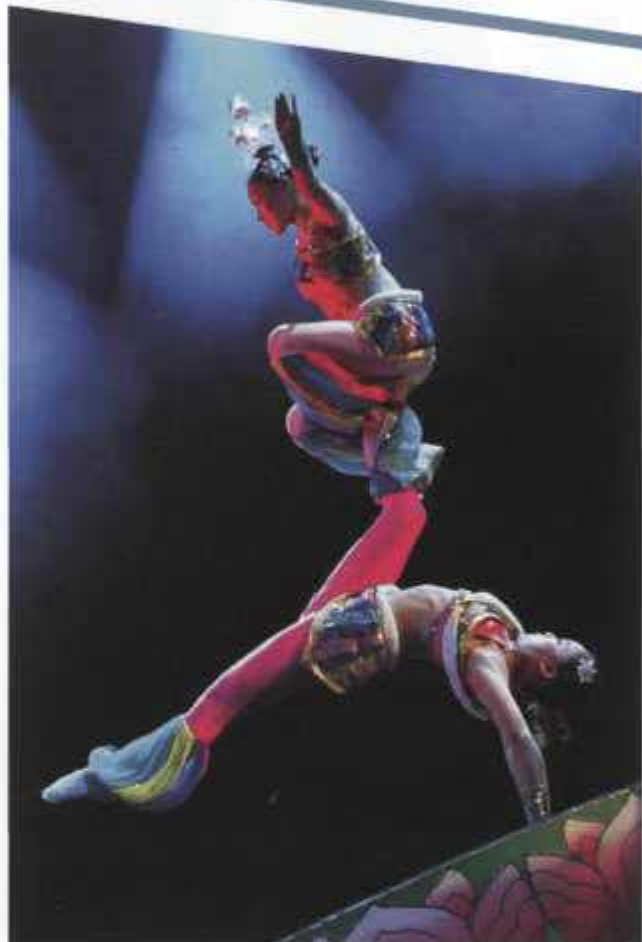


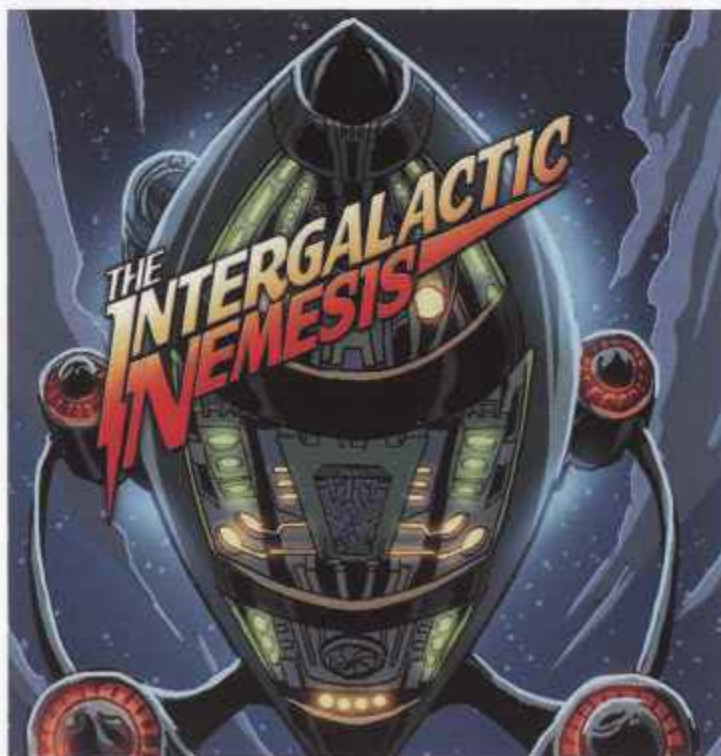


1. Hugh Baker
Regional Advancement Director
2. Mary Barr
VP for Communications and Marketing
3. Michael DeVasher
Assistant VP for Enrollment Management
4. Luchen Li
Associate Dean of Global Programs
5. Marianne Messina
Web Content Director
6. Samuel Peffers
Director of Planning
7. Tuesday Strong
Director of Planning
8. William Kincius (not pictured)
Senior Manager of Landscape and Grounds

11-12

Performing Arts





Rose-Hulman's Hatfield Hall shined again this season with a variety of acts, from the world-famous to the avant-garde. Among others, the Russian National Ballet, Chunky Move, and The Acting Company wowed students and faculty alike. In addition, Rose students shined in productions of Andrew Lloyd Webber's *The Phantom of the Opera* and the Broadway show *Epic Proportions*.





International Student Events



Sushi demo
make your own sushi

Global Cuisine

fundraiser for the RHIT
chapter of Engineers without
Borders, sponsored by the
International Student
Association





Proud graduating senior Yile GU, from China, with his parents – he will attend Princeton University for a 5 year PhD program in Chemical and Biological Engineering

Proud graduating senior Passakorn ARAMRUENG from Thailand with his family – he will work for Cummins



Proud graduating senior Yaoning WU [on right], from China, walks the traditional senior walk from upper campus down the hill to the SRC for commencement. He will continue at Rose-Hulman for his MS degree in Electrical Engineering.

Up 'til Dawn[®]

Unite to Fight Childhood Cancer





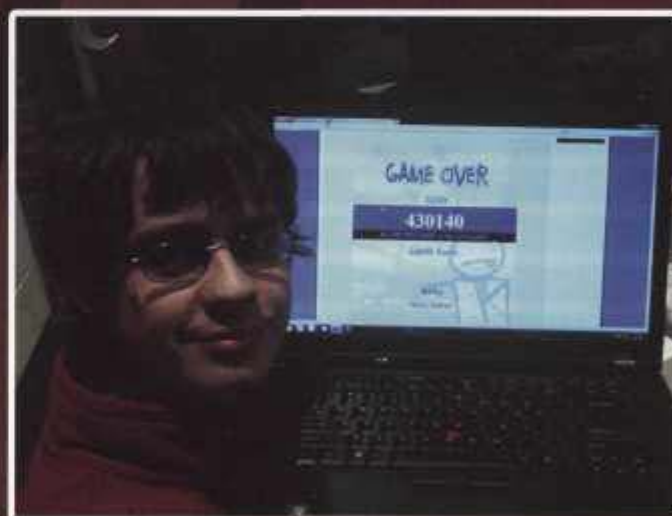
St. Jude Children's
Research Hospital

ALSAC • Danny Thomas, Founder

News & Features

The 2nd annual Greatest Floor Competition saw Rose's residence hall floors competing in 24 different events over 24 hours. This year's competition included events such as a Cake Decorating Contest, Rock Band, a Rube Goldberg Competition, ping pong, a word search, and more. Event winners won "Greatest Floor" shirts while the winning floor won \$1000 in floor money as well as the "Greatest Floor Cup" for the rest of the year. This year saw Scharp 3 & 4 finishing in first place followed by Percopo 2, Percopo 0 & 1, Apartments East 1, and Speed 3. ◀

Winner



Scharpenburg 3&4



ROSIE



A 'Great' Life

Rose-Hulman lost a visionary, a leader, and—perhaps most importantly—a friend this year. President Branam, known to many as Matt, passed away on April 20th, 2012. Branam became the President of Rose-Hulman in 2009 after a short interim period; he effected a great deal of change on campus during his short tenure, including the construction of the Student Innovation Center and a new on-campus residence hall.

In the week following Matt's passing, the campus saw an outpouring of support from without and within at an open visitation and at the Celebration of a 'Great' Life.



1954 2012





sports







men's soccer



The men's soccer team started the season off with mixed results, but went on to power through an 11-match winning streak that advanced the Engineers to the NCAA Division III Tournament for the second time in school history. Seniors Eric Davenport, Brad Foulke, Tim Hollingshead, and Clint Vatterrodt were honored at the 1-0 shutout victory against Defiance College. Unfortunately, the team fell early in the NCAA Tournament to conference opponents. The Fightin' Engineers finished the overall season strong with a school record of 16-6 and a conference record of 8-1.



women's soccer

A 2-1 victory over Albion College marked the opening of the Lady Engineers' soccer season. Continuing the momentum, Rose-Hulman met the first four games breaking even on wins and losses. And though the rest of the season proved rough, the women's soccer team persevered, managing spectacular 4-1 victories over both St. Mary-of-the-Woods and Anderson University. The end of the season overall was met with a 5-12-1 record; conference games saw a record of 1-7-1. The closing game against Defiance honored senior engineers Julie Brennan, Carolyn Guzik, Aleks Kampa, Kaitlyn Lewis, Molly Rice, Annmarie Stanley, and Anna Vogel.





football

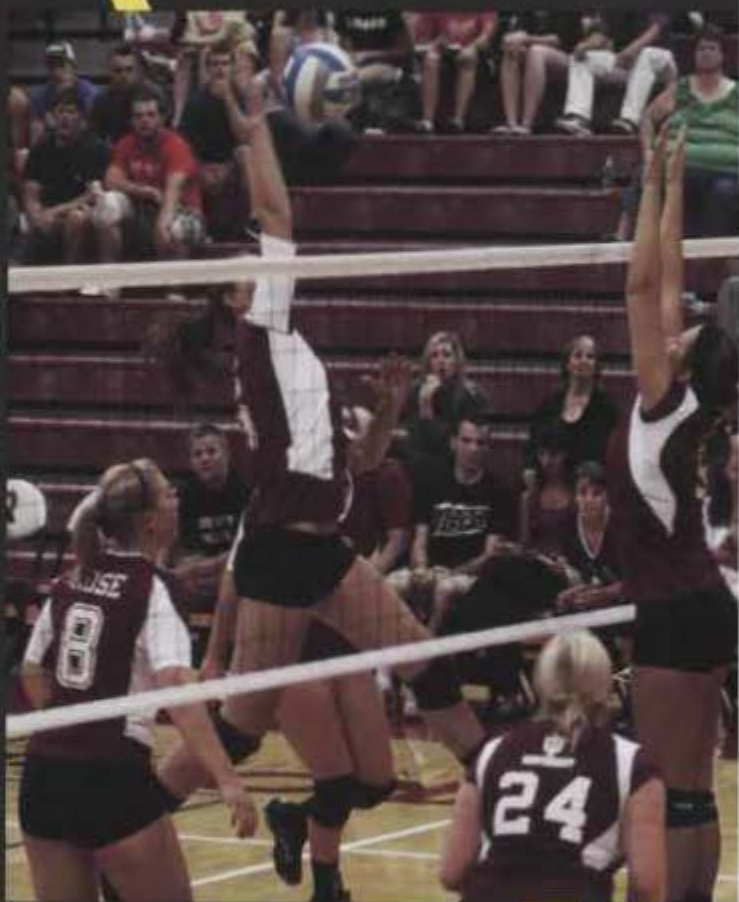
On August 15th, anyone on campus could hear the blast of music coming from Cook Field as the football team began their first practice of the season. Led by first year Head Coach Jeff Sokol, the football team could be seen all season practicing out on the field after classes and in the weight room throughout the day. Coach Sokol would tweet encouraging news on Twitter and the players wore black shirts with the saying "We Work" on the front to remind each player about their goals for the season. After a slow start, the Fighting Engineers won their first game on Homecoming night by relying on their defense to defeat Hanover in a 31-20 win. The team continued the season by capturing key road victories. Their final game against Earlham helped the team finish up the season by claiming second place in the HCAC with 5 wins and 5 losses. Thirteen athletes were honored by the HCAC and three athletes earned Academic All-District Honors.





volleyball

Led by HCAC Coach of the Year Brenda Goble and four year varsity athletes Karah Hickman, Leah Pelzel, and Morgan Williams, the Fighting Engineers started their success early on, going undefeated at the RHIT Invitation Tournament by sealing victories over Ohio Wesleyan, Wilmington, Eureka, and DePauw. The progress continued throughout the season and the girls were able to achieve an overall record of 24 wins and 9 losses; 7 wins and 2 losses were against other HCAC teams. As they entered into the Conference Tournament, the Fighting Engineers defeated Transylvania, Hanover, and Bluffton to clinch the title of the HCAC Conference Champions. Hickman and junior Anna Lewer recieved First Team All-League Honors, and Pelzel and Williams were awarded Second Team All-League Honors. Although the team lost in the first round of the NCAA Division III Tournament to fifth-ranked Wittenberg University, the team completed their best overall season in Rose-Hulman volleyball history by being named the NCAC regular season champions and breaking school records for wins and winning percentage.



cross-country

Although the Fightin' Engineers' Women's Cross Country team was small in numbers, they were a force to compete with on the course. The team placed in the top ten in five out of their seven meets, one of which was a third place victory at the Earlham Invitational. Shannon Butler (senior), Katherine Moravec (sophomore), Ashley Schumacher (freshman), Claire Stark (sophomore), and Anna Taylor (freshman) ran with determination and improved throughout the season. Junior Creasy Clauser and freshman Nicole Gonzalez alternated throughout the season in leading the teams at the meets and they always held a competitive edge. Butler, Clauser, Stark, Gonzalez, and Schumacher all contributed to the ninth place finish during the HCAC Championships which concluded the team's successful season.



Rose-Hulman's men's cross country team truly showed their strength and endurance throughout their season. Overall, the team finished in in the top ten in all of their seven. Matt Billingsley (freshman), Andrew Thompson (sophomore), Matthew Lash (freshman), and Josh Elkins (senior) all improved throughout the season and contributed to the success of the Fightin' Engineers. Three of the team's top runners consistently lead the pack and moved onto the NCAA Regional Meet after capturing several honors at the HCAC Meet. Senior Micah Aldrich placed second at the HCAC Championship meet and was named to the all-conference team. Freshman Stuart West joined Aldrich on the all-conference team and was also named the league's Freshman of the Year. Freshman Josh Hojnacki was named to the honorable mention all-league group. In the NCAA Regional Meet, West led the team and finished in 74th place followed by Aldrich (104th) and Hojnacki (115th).



The team started the outdoor season with seven more individual victories at the Rose-Hulman Early Bird Meet with first place finishes in the women's 400-meter (Clauser), men's 100-meter (Edwards), 110-meter high hurdles (Coleman), javelin (Schulthies), hammer throw (Greg Larmore, junior), shot put (Luke Wunningham, sophomore), and 4x400 meter relay (Coleman; Charlie Phillips, sophomore; Travis Stallings, junior; Tyler Hannan, junior). The men's team finished the season with two overall second places. At the HCAC Outdoor Championships, the men's team finished first overall and the women's team finished fourth.



track & field

The Rose-Hulman 2012 team followed in the successful footsteps of the Track and Field Fightin' Engineers' of the past by capturing event after event and collecting victories in both the men's and women's meets throughout the season. In the first meet of the indoor season, the Engineers rallied seven first place finishes in women's high jump (Liz Evans, junior) and 400-meter (Creasy Clauser, junior) and men's pole vault (Collin Crowson, junior), 55-meter dash (Jeremiah Edwards, senior), shot put (PJ Schulthies, senior), and the mile (Stuart West, freshman). The men's team finished the indoor season with first place overall finishes in all four meets and the women's team earned two second place overall finishes along with a fourth and a seventh place. At the NCAA Division III Indoor Nationals, Evans seized first place in high jump, and senior Sutton Coleman achieved a national runner-up placement in the 60-meter hurdles.



women's basketball



Headed by lone senior and four year varsity forward Alisa Dickerson, the young Lady Fightin' Engineers Basketball team had nine wins and eighteen loses in their overall season with six of their wins and twelve of their losses coming from HCAC league play. After a slow start to the season, the team clinched key home victories over Bluffton and Webster prior to winter break. Throughout the rest of the season, the Engineers gained most of their victories on the home court against other HCAC teams. Because of their success, the team qualified for the HCAC Tournament. In the first game, the Engineers upset 3rd-seated Manchester College to earn their first postseason victory in program history. Sticking to their resilient defense and strong shooting from Dickerson, sophomores Heather Finnell and Kelsey Ploof, and freshman Sheree Williams, the team came into the second game with momentum. In the last game of the season, the Engineers fell to Hanover in the semifinal round of the HCAC Tournament. Dickerson completed her career as the only player in Rose-Hulman basketball history with career totals of 1,200 points, 700 rebounds and 300 assists. Because of all of her accomplishments on and off the court, Dickerson was named to the Capital One NCAA Division III Women's Basketball Academic All-American Team.

After their foreign excursion to France, the Rose-Hulman men's basketball team was ready for the new season. Rose returned their top ten scorers and all five starters from the year before, including Austin Weatherford (junior), Julian Strickland (sophomore), and Nate Gissentanner (junior). The Fightin' Engineers started off their season with four straight wins, including the 1000th win in Rose-Hulman history. Throughout the rest of the season, the team repetitively won game after game, capturing key HCAC victories along the way. Their success brought the team into the HCAC Tournament with a record of seventeen wins and eight losses. The Fightin' Engineers continued their streak when they won their first conference tournament championship since 1998 against Transylvania. With a game high of 30 points, Strickland was named the tournament's Most Valuable Player. Strickland and Weatherford were both named to the all-tournament team. The engineers continued their journey at Washington University-St. Louis for the first round of the NCAA Division III Tournament. The team was unable to carry through with their late game rally and they were defeated by North Central College. The Fighting Engineers finished the season with twenty wins and nine losses and tied for second on the school record list for wins in a single season.



men's basketball

baseball



In Auburndale, Florida, the 2012 Fightin' Engineers earned the 1000th victory in the history of the Rose-Hulman baseball program with a win in their season opener against Farmingdale State. With this achievement, the team was just beginning their list of this year's achievements. The Engineers continued their success in Florida as they finished off their trip with a record of five wins and three losses, including a fifteen inning battle versus Loras. Rose continued their season with multiple essential wins against Defiance, Bluffton, Mount St. Joseph, Hanover, Franklin, Transylvania, and Manchester en route to bagging the title of the conference champions for the tenth time in school history, as well as the top seed in the HCAC Tournament.

Due to a combination of excellent pitching from R.J. Carroll (freshman), Ryan Fuller (senior), and Michael Bush (sophomore), Ben Menich (freshman), and multiple other pitchers, along with mighty hits from Jamie Weinle (senior), Bobby Newman (junior), and Nick Pilipovich (junior), the Engineers defeated Earlham in the first round of the tournament two games to one. Yet, the team followed up with difficult losses to Manchester and Anderson and was bumped out of the tournament. Upon the end of the season, several players were awarded various honors. Juniors Ethan Post and Matthew Turk were chosen to the first-team NCAA Division III academic all-district seven squad. Both players earned GPAs that exceed 3.80.



softball



After a rough start in sunny Clermont, Florida, the Fightin' Engineers Softball team knocked the mud off their cleats and got their bats ready as they headed back to the Midwest. The girls fought closely with their opponents and many of their games were decided by just a couple of runs. The Engineers' top games occurred against Manchester, Blackburn, and Franklin; in those games, the team defeated their opponents in both games of the double-headers. The team also captured solid victories against Johnson & Wales, Concordia, Centre, Robert-Morris, Mount St. Joseph, Taylor, and Hanover. In their final double header of the season, the Engineers took on Defiance, needing to win both games to move onto the HCAC Tournament. After a 1-0 win in the first game, the Engineers continued gameplay with hopes of keeping their season alive. Due to superb batting by Carly Heibel (freshman), Alyse Mueller (junior), Allison Bowman (junior), and Jenna Martinek (sophomore), the Engineers took a 3-2 lead over Defiance. Yet the team was unable to hold onto the score as Defiance scored two runs in the final inning. The Fightin' Engineers finished their season fifth in the HCAC with fourteen wins and twenty-six losses. Heibel earned first-team all-HCAC honors by leading Rose in batting (0.402) with 51 hits and 5 homeruns. Heibel also earned the HCAC Pitcher of the Week honors and finished the season with 55 strikeouts. Brianne Widmoyer (junior) and Martinek received honorable mention all-league honors and a spot on the all-sportsmanship team, respectively.



swimming & diving

The swimming and diving team fought through the season by clinching several key victories with their consistent hard work and dedication. Both teams clinched victories at Rose's SRC Pool during the season. Junior diver Nicole Richardson showed a strong performance by placing in two events at the Engineer Diving Invitational. After team training in Florida, the Engineers came back to the pool stronger and the men's team gained first place at the HCAC Meet. This momentum continued into the CCIW Championships for Rose's swimming and diving teams. With her second place victory at the diving invitational, Richardson earned all-conference honors. Freshman diver Megan Weinzapfel and junior diver Andy Welsh also placed. In the swimming CCIW Championships, the Rose-Hulman team recorded six school records, two individual conference titles, two NCAA provisional national qualification marks, and five all-conference performances. Junior Matt Ross was named Outstanding Performer after capturing numerous honors with his speed. Juniors John Huster and Rosee Meininger and sophomores Logan Ryan and Andrew Podgorski played key roles by breaking records with their outstanding performances. On the women's side, several swimmers moved on to compete in the final rounds including junior Shannon Cunnen and freshmen Celeste Kline, Laura Danhauer, and Ashley Schumacher.



rifle



The small but powerful Rose-Hulman rifle team definitely completed their season with a bang. Not only did the Engineers compete in Terre Haute, where they defeated Purdue University, but they also traveled throughout Ohio, Tennessee, and Kentucky to face top contenders at various invitational events. During both small-bore and air rifle, the team relied on the accuracy of their sharp shooters, especially from Evan Duvall (sophomore), Malhon Godwin (senior), Adam Foss (sophomore), and Allie Carlson (freshman). During the NCAA Sectionals in Columbus Ohio, Rose recorded their second best score of the rifle season of 4,481 points. In this competition, the Engineers were led by Duvall who broke his own personal record with 578 in air rifle and a school record of 1,148 total points. Foss and Godwin tied for second place with 1,120 points and Carlson added 1,093 points with her fourth place finish. At this contest, each Rose member outscored the top score from Purdue University and the team moved onto the Western Intercollegiate Rifle Championships at Michigan State University. At the WIRC Match, Godwin finished up his career with a score of 938, leading the rifle team to a fourth place finish and a successful overall season.

men's golf



The Fightin' Engineers' men's golf team hit the green hard this year as they drove through their season. The team, consisting of five returnees from last year as well as three new upperclassmen and three freshmen, worked together to find their groove. Overall, the team captured eighteen individual top twenty finishes within the nine tournaments they attended this year. Many of these individual achievements occurred during the fall Little Giant/Engineer Cup, in which Nick Perham (Freshman), Aaron Kiraly (Senior), and Brandon Scroggins (Sophomore) were individual match play winners, Eric Kamer (Junior) and Scroggins were team match play winners, and Kamer, Jeremiah Cole (Senior), and the team of Kiraly and Tucker Cox (Freshman) were all square matches.



The team came back together in the spring to golf together and to compete in the HCAC Tournament in Wabash, Indiana. Lead by Junior, John Rigitano (23rd place), Cole (24th place), and Kiraly (26th place), the Engineers earned eighth place at the HCAC Championships. Parham had the best scoring average this season with 79.4, followed by Rigitano with 82.6, Cole with 84.2, and Kiraly with 84.3. The team will be losing senior golfers, Cole, Adam Geisler, Kiraly, and Blake Knotts due to graduation, yet this young team has a promising future.



women's golf



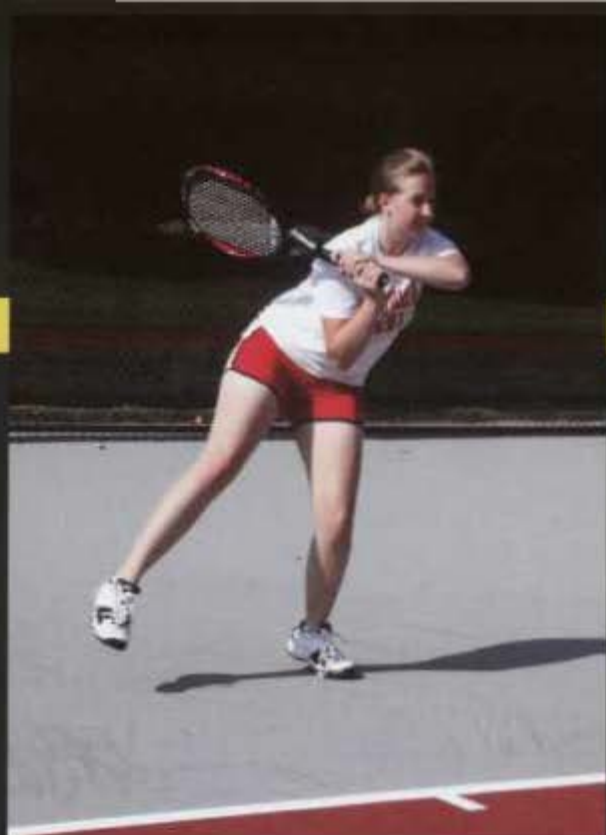
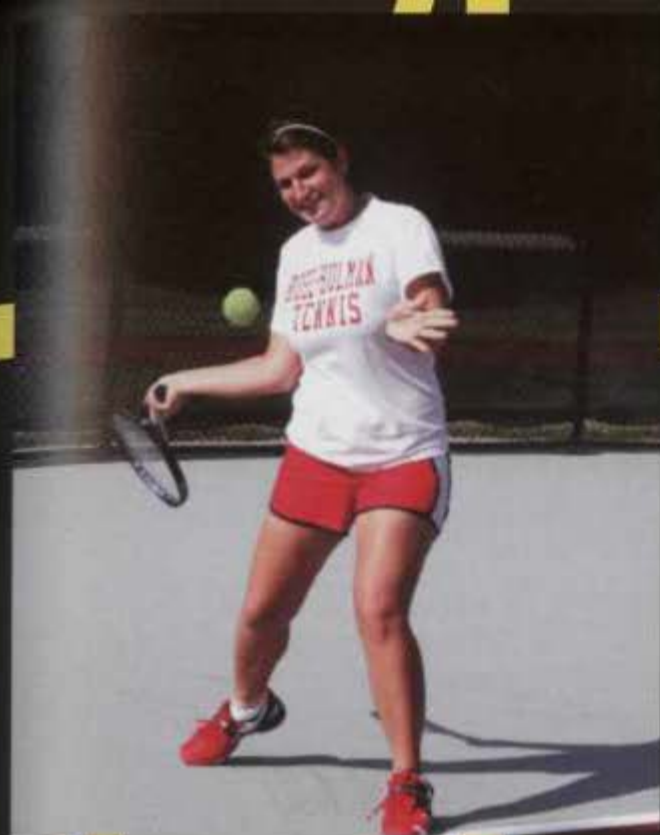
The young Fightin' Engineers Golf Team entered their season with four new freshman and lone senior Bailey Wagner. Despite their youth, the team stayed on course as they aimed towards their goals throughout the season. Their greatest performance occurred at the Hanover Invitational, where the team captured 6th place overall with Wagner recording a career-best score of 80 and taking 16th place. Freshmen Emily Barker and Deanne DeKeizer also finished in the top thirty. The team continued their season driving their way to the HCAC Tournament where the Engineers took 7th place. During this tournament, Barker earned all-league honors by scoring 175 and tying for eighth place. By the end of the season, the Fightin' Engineers walked away with experience as well as individual school records. Barker currently is 2nd in career scoring average and 8th in single-season average, both with a score of 89.27. DeKeizer also made the career scoring average list as the 6th golfer with a score of 93.27. Wagner rounded up her career as the 5th golfer on the career scoring average list with an average of 92.89 and the women's golf record holder for the most career rounds played with 46 rounds from 2008 to 2012.



men's tennis



After a slow four loss start, the Rose-Hulman men's tennis team bounced back with overwhelming power. The Fightin' Engineers started their winning streak at the beginning of April and won seven straight matches, including a 9-0 shutout over Bluffton. The team finished out the month with nine wins and two losses, counting for the majority of their season's victories and leading the team into the HCAC Tournament with high morale all around. Rose started the tournament off by sweeping Anderson with a 5-0 victory, including singles victories from Stephan Lemmer (senior) and Ray Montgomery (freshman) and doubles victories from the duos Ben Paras (junior) and Devon Fritz (junior), Ian Stevenson (senior) and Lemmer, and Randy Billingsley (senior) and Nathan Moore (sophomore). The team's season ended later that day when they fell to the top seeded Earlham College 5-0 in the semifinals of the HCAC Tournament. The Fightin' Engineers finished their season with ten losses and seven wins. The No. 1 doubles team and No. 1 and 2 singles players, Paras and Fritz respectively, were both named to the All-HCAC first-team. Stevenson and Moore were also awarded honorable mention all-conference winners upon the end of the season.



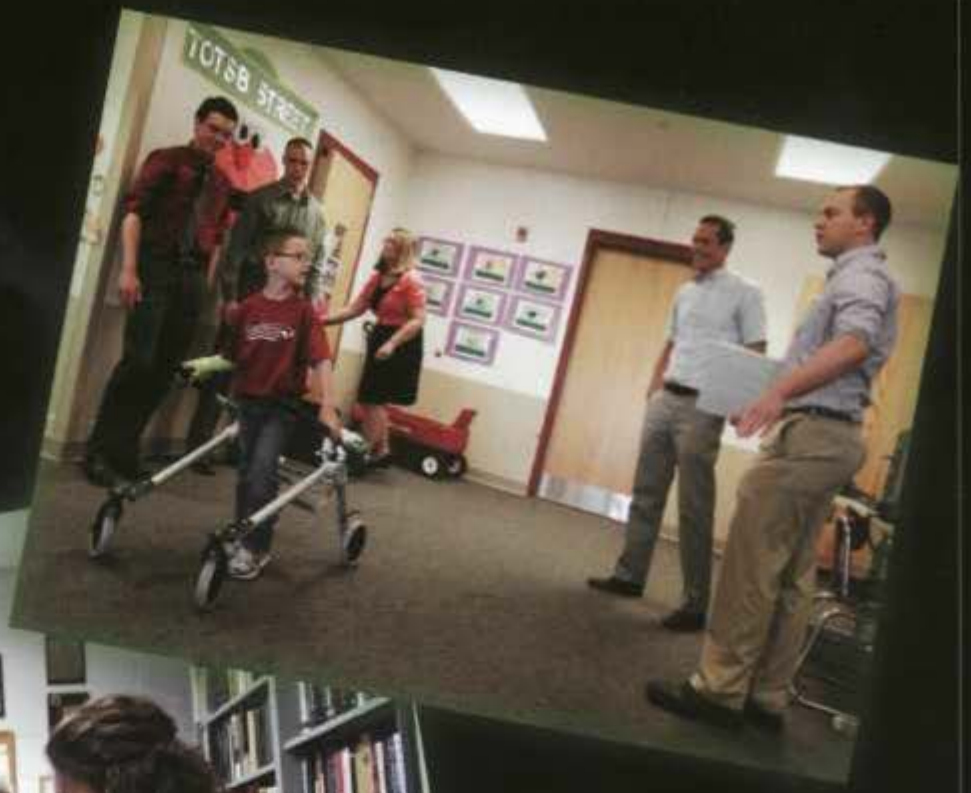
women's tennis

The women's tennis team continued on last year's winning streak by starting the season off with two quick victories in early September. They volleyed back and forth, with the odds in their favor as they finished the season with a record of eleven wins and five losses. In their win over Franklin College, the team was named the Heartland Collegiate Athletic Conference regular season champion and earned the top seed for the league's tournament. Against Franklin, the RHIT doubles teams swept first (Sage Sackett & Melissa Montgomery), second (Marie Stettler & Paige Cook), and third (Kylie McCollum & Lauren Reberger). Rose singles also earned second (Sackett), third (Montgomery), fifth (Cook), and sixth (McCollum) place. Although the team's efforts fell short in the HCAC Semifinals match against Anderson University, several girls finished the HCAC season in top spots. For singles, RHIT captured third (Montgomery), fifth (Cook), and sixth (McCollum) place as well as second place (Stettler and Cook) for doubles. The Engineers ended their season on multiple positive notes. Not only did they defeat IU-East in the season finale, but multiple players were honored by the HCAC. Stettler, Sackett, and Montgomery were all given first-team all-league honors. Honorable mention all-conference athletes included Cook, Reberger, and Stevenson. McCollum was also honored with a spot on the league's all-sportsmanship team.



academics





applied biology



biomedical engineering



chemical engineering



chemistry

The Chemistry department has seen a makeover with all experiments now being done under vent-less hoods. Labs are also being made with an emphasis on green chemistry in order to reduce and eliminate environmentally harsh solvents. In addition, the Chemistry department boasts state of the art instrumentation, with nothing exceeding five years of age, that all students have access to. The department also supports student research with students participating in undergraduate research at Butler University as well as the interdisciplinary research collaborative over the summer.



The Civil Engineering department has enjoyed involvement with a great variety of student activities. ASCE social events were held throughout the school year. The Cecil T. Lobo ASCE Student Chapter partnered with the Indianapolis group SAWs (Servants at Work) on a number of wheelchair ramp projects—having completed some assembly of parts on campus.



civil engineering



Student meetings included a CE Career Fair in which students who had completed internships advised younger students who were interested in an internship with the same company. One of the many student field trips included Benchmark Steel where students met up with CEO Ted Hazeldine. Other service projects which students were involved with include Adopt-A-Highway along Hunt Road near campus.

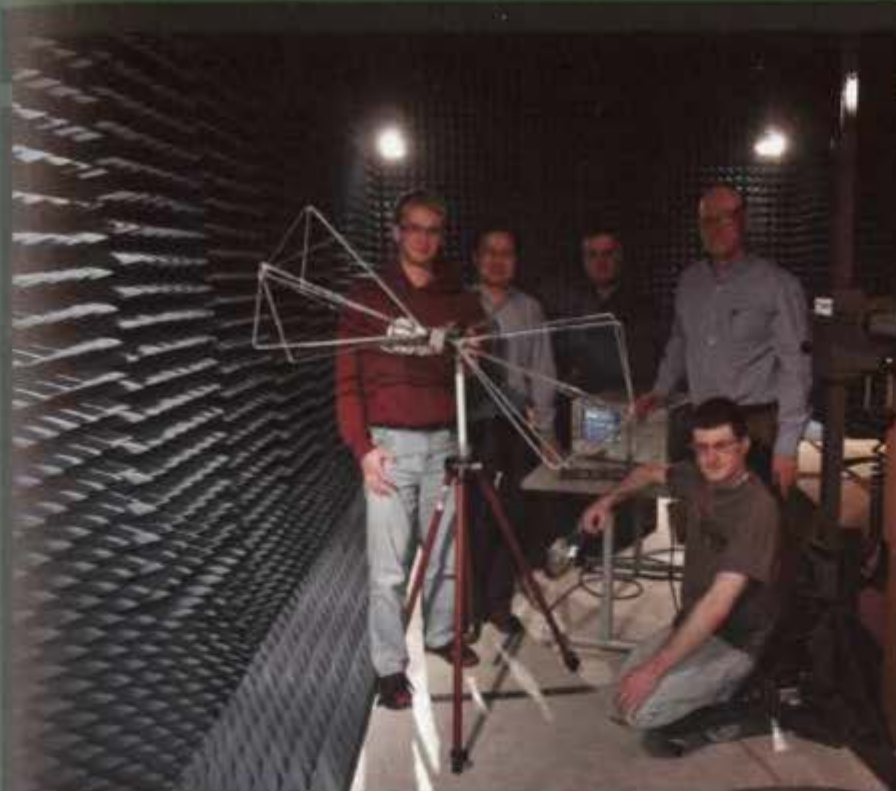
computer science & software engineering



The CSSE department has a long history of working with students on a 1-1 basis through independent studies. This provides the faculty and students to research and experiment with the latest technologies and computing platforms such as scalable computing, agile methodologies, mesh networking, version control paradigms, human computer interaction, advanced Android & iOS development, and multi-touch tabletop development.

In addition, the department has also been pushing towards increasing the number of students who are interested in Computer Science at the high school level with faculty participating in the Indiana Aspirations Awards for women in computing as well as donating computer science books to high school students across the state.





electrical & computer engineering

The Electrical and Computer Engineering Department has overseen a few departmental changes. One such modification is ECE-320 (Linear Control Systems) which has been changed to include both continuous and discrete-time control. The course has also observed the addition of dsPICs to vary the speed of a simple wheel allowing students to review their knowledge of microcontrollers and enforce their understanding of hardware limitations in the real world. Professor Ed Wheeler has supervised the construction of Rose-Hulman's new anechoic chamber which will be used for classroom demonstrations, senior design projects, and research projects. In addition, the Rose-Hulman student branch of the IEEE hosted a motor-building activity for Explore Engineering—an initiative by Rose-Hulman to introduce middle and high school students to engineering.



engineering

management

The Engineering Management department is one of the prime examples of how Rose-Hulman encourages their students to collaborate with the world around them. While the majority of the students in the engineering management department are Rose students, there are also five German and two Indian students in the program as well. These numbers vary from year to year, but a close relation to Anna University (India), University of Magdeburg (India), University of Stuttgart (Germany), and the University of Frankfurt (Germany) has kept international students wanting to study at Rose year after year. One of the most memorable parts of this department is their yearly capstone integrated projects. Some of these projects included: Mass Customization in the Footwear and Sporting Apparel Industry, which assisted Adidas in tailoring the supply chain to increase requirements; Development of a Supplier Relationship Management System, which was created for the Fraport Group in order to expand the Frankfurt International Airport; a business plan for MotoGeek; and The Use of Computer Stimulation in Implementing Efficient Manufacturing Methodologies: A ProModel Approach.



Since much of the focus in engineering management takes place off campus, it is easy for students to take advantage of various programs sponsored by various companies, such as Eli Lilly and Evonik, as well as for practicing practitioners to continue their education. One of the new events that took place this year was the Continuing and Professional Studies. This program consisted of eight sessions with Plews Shadley Racher and Braun LLP employees, Greg Gotwald and Michael Bowman. During these classes, professional engineers, including many alumni, were able to participate in two hour sessions that talked about engineering ethics as well as legal issues. In its first year, this program has shown to be a success.



For Rose-Hulman students who want to continue their education after graduation, graduate studies is the perfect place to go. This year, the graduate studies department made the application process more accessible to prospective graduate students by implementing an online version of their applications. This new feature especially benefits foreign students who want to apply to Rose-Hulman. Also new to the department this year includes the exploring partnership with Ulm University in Germany. Through this partnership, grad students have the opportunity to take courses both at Rose and at Ulm in Germany.

Upon completion, the students take about fifty percent more classes, but receive two diplomas. There were about sixty full time students on campus this year as well as a hundred off campus or part-time students from Terre Haute, Indianapolis, and Bloomington. Although more than the majority of the graduate students were Rose alums, students from Germany and India also took part in their studies at Rose. Projects from this department include an optical converter, a torque steer, and an expansion of steel processing and casting in a local plant.

graduate studies

humanities & social sciences

The HSS Department involves itself with a multitude of activities and student programs. One such program is HERE - the Home for Environmentally Responsible Engineering - which is a living-learning community in which students work together in a first-year curriculum dedicated to sustainability. The members of this year's cohort, the program's first, lived with fellow cohort students in Blumberg Hall, learned about sustainability and sustainable engineering, prepared for advanced sustainable engineering coursework and projects, and implemented an on-campus design project funded by Procter & Gamble.



Professor John Gardner twice led the Rose chapter of Engineers Without Borders to the Monte Plata province of the Dominican Republic. In August 2011 they built a septic system for a medical clinic and checked on a roof built the year before, and in February of 2012 research was conducted to enable the construction of latrines for a rural community served by the medical clinic. Problems with the community's water system were also fixed during the February trip.

Students in Professor Scott Clark's Japanese Society and Professor Mike Kukral's World Geography course undertook a joint project with students at Ishikawa Prefectural University in Japan to redesign local tourist maps in English. The project culminated with a seven-day visit to Ishikawa and Tokyo.

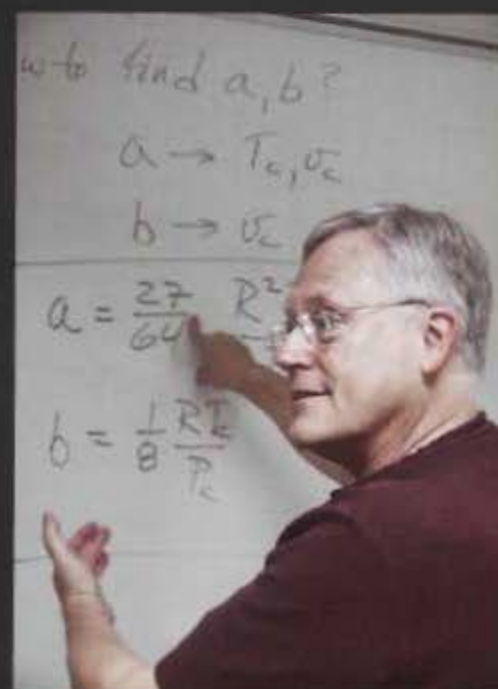
mathematics



The Mathematics department has had great success this year, showcasing three of the six faculty members—Dr. Diane Evans, Dr. Elton Graves, and Dr. Yosi Shibberu—who were featured in the Princeton Review's "The Best 300 Professors" book. In another success enjoyed by the Mathematics department, the area minor in computational science has undergone approval by the Board of Trustees to be featured as a major at Rose. The department has also supported student research, having hosted an annual conference since 1984. Other student programs supported by the department include Fast Track Calculus—where students spend five weeks covering material and getting credit for Calculus, I, II, and III—as well as Fast Track Physics—another five week course designed to cover and give credit for Calculus III as well as Physics I and II.



mechanical engineering





physics & optical engineering

This year, the physics and optical engineering department encouraged innovation in education through cultural exchanges, field trips, summer research, and new technology. During the summer months, fifteen Korean students from Seoul National University of Technology and Sunchon University came to Rose-Hulman to learn about MEMS (Micro-Electro Mechanical Systems) and to learn English. Along with the help of Dr. McInerney, Dr. Siahmakoun, and six Rose-Hulman students, not only were the Korean students able to learn all about MEMS, but they were also introduced to American life and customs. This past summer, the department worked with forty freshmen and sophomores for ten weeks on cutting edge research and projects working with femtosecond laser systems, nano-technology, optical communication, effects of laser light in biological specimens, nano medicine, astro-photometry, and nano particles. When the school year started, about sixty more students took part in research and worked on company projects. Numerous student publications have resulted from these long hours in the lab.

Every year, Dr. Joenathan and Dr. Bunch take students from the physics and optical engineering department on a cultural experience out of town. This year on March 10, the group consisted of about thirty students and they travelled to Chicago to visit the Museum of Science and Industry and the Holographic Museum. This trip is a special event for the department each year since the location changes every time and to enhance the cultural experience, Dr. Joenathan insists on the group trying different foods from various countries at each new city every year.



air force reserve officer training corps

Through Air Force ROTC, Rose Cadets can train to become commissioned officers in the United States Air Force. The cadets meet up a couple times a week for classes and training in order to learn specific drills and marching, the history of the Air Force, how to wear the uniform, the customs and courtesies of the Air Force, management skills, and leadership. During the cadets' freshman and sophomore years, they learn the basics of the Air Force lifestyle and physically prepare themselves for the Officer Field Training that takes place during the summer in between their sophomore and junior years. During the field training, the cadets travel to Maxwell Air Force Base in Montgomery, Alabama to put all their knowledge to the test. In the remaining two years, the students study case studies, learn the Uniform Code of Military Justice, and find out where they will be stationed upon graduation.

This year there are sixty-six cadets among the five schools of Indiana State University, Ivy Tech, Saint Mary of the Woods, Vincennes University, and Rose-Hulman. Seventeen of these cadets come from Rose.



Multiple times a week, the Army ROTC Cadets can be seen around campus in their physical readiness training clothes or green uniforms packed with all their gear. Yet, these Rose students do a lot more work than seen on first glance; throughout the year, Rose-Hulman/Indiana State University's ROTC hosts numerous events for their cadets to build unity throughout their squads. At the beginning of the year, Army ROTC hosts a welcome picnic barbeque to lay out the expectations for the upcoming year. At the barbeque, the first years were also introduced to the new Lieutenant Colonels, LTC Freidoff and LTC Garner. At the end of September, the cadets were sent to Crane Naval Base for their situational training to work on certain skills such as land navigation, squad situational training exercises and leadership.

For Veterans Day, AROTC collaborated with the AFROTC and the Jr. ROTC in Terre Haute to show their respects for all the veterans of our country by having a Color Guard present at the Vigo County Courthouse for a straight 16 hours. ROTC rounded up the year with a formal dining in at Rose-Hulman's Kahn Room in December. This event represented a fun army tradition used to build union within the battalion, which included the University of Evansville, Southern Indiana, and Indiana State.



In the spring, the events continue to prepare the cadets for their time after college. In late March, Rose's ROTC met up with all of the Indiana ROTC programs at Camp Atterbury to take part in a field training exercise. This experience mixed the troops so that everyone had to work with new people and build teamwork. Weeks later, Rose's ROTC traveled down to University of Southern Indiana for their formal dining out dinner to again collaborate with other Indianan programs, build comradery, and prepare to bid their seniors farewell. The final event of the year takes place around graduation time. At this time, commissioning of the seniors and the pinning of bars happens.



army
reserve
officer
training
corps

residence halls







apartments west 1 & 2



west 3



east 1



east 2 & 3



blumberg



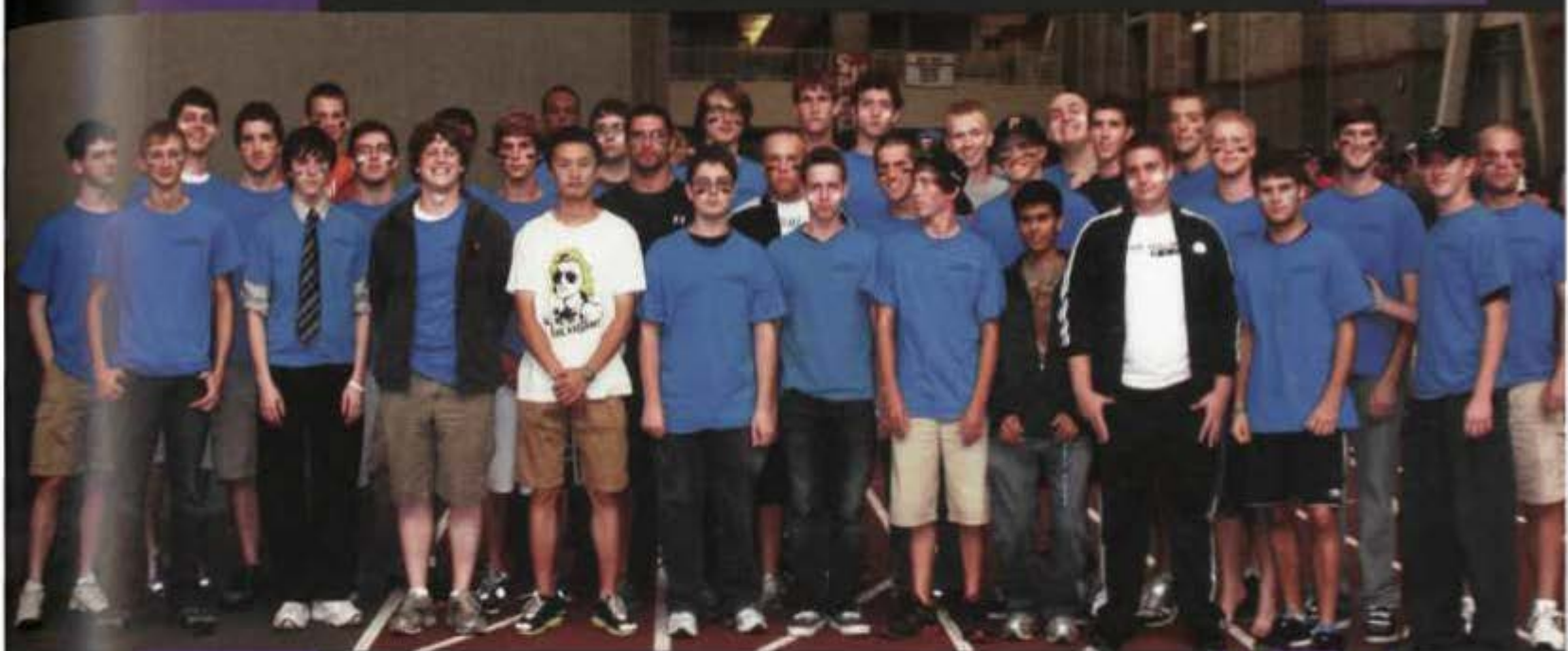
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percopo 0 & 1



2

percopo

3



scharpenburg



skinner



speed 1



speed







residence

life

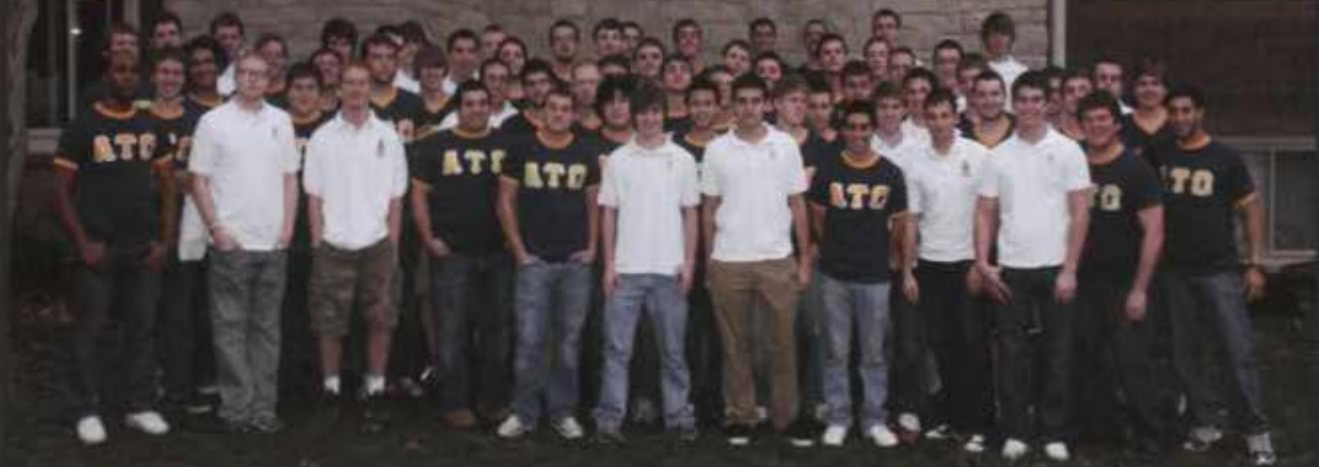
staff

greek life





ΑΤΩ



alpha tau omega

ATO has had a very successful 2011-2012 school year. We initiated 18 new members on April 10, and we will be watching 18 seniors move on after graduation. During the year, we organized a new event called Rosapalooza benefiting the Terre Haute Children's Museum. We also participated in philanthropic events such as volunteering for Trees, two Road Clean Ups, and Terre Haute's St. Patrick's Day Parade.

We were very active around the Rose campus. We have outgoing presidents of RHA and the Interfraternity Council. Our incoming campus leaders include many other active members in many other student groups on campus. We have 3 Resident Assistants. We also have 15 athletes in 9 different sports.

Next year, we will miss our graduating seniors, but we know that they will do well working with companies such as Schlumberger, Cummins, and Wright-Patterson Air Force Base. We plan on having a successful year again in 2012-2013 after our remaining members return from internships with companies including Texas Instruments, Microsoft, and GE Aviation.





chi omega

At the final recruitment party, the chapter members got to speak with potential new members for a longer period of time to determine if the ladies were a good fit. On bid day during the activities, each pledge class took a picture together. The senior pledge class decided to spell out seniors with their bodies. A group of Chi Omega's volunteered to work at the Terre Haute Children's Museum for the annual Rose-Hulman Day of Service.





delta delta delta

This year the TriDelta girls have been extremely busy. We began the year by initiating 18 wonderful new members in the fall. Throughout the year, the girls have raised money for St. Jude Children's Research Hospital with events like Tri-Hop and Trivia Night. They have also worked very hard with other philanthropy events, Greek and Residence Hall Penny Wars, and Teeter-Totter-A-Thon to raise money for Riley's. TriDelta also reached out to Terre Haute by cleaning up part of Heritage Trail.

We also have had fun at many different sisterhood events, whether it be a Delta food fight in our back yard or the fall social at the Children's Museum. In the winter the TriDelta girls were able to escape the cold for a little while by having a winter luau.

Over the year the members of Delta Delta Delta have worked really hard whether it is through their school work, raising money, volunteering around campus, or just hanging out with each other to make the year awesome.



delta sigma phi



Delta Sigma Phi had a good 2011-2012 academic year. For the fall quarter, the men of Delta Sigma Phi's Zeta Lambda chapter posted the highest grades among all of Rose-Hulman's fraternities. Toward the end of the Winter Quarter, Zeta Lambda activated 14 upstanding gentlemen. The brothers participated in many campus service projects: Bikes for Tykes, campus beautification for Homecoming 2011, and others. Just in time for Halloween, the brothers hosted a social with Chi Omega to carve Jack-O-Lanterns. For Christmas, Delta Sigma Phi hosted the girls of Alpha Omicron Pi for a social making cookies and decorating a Christmas tree. Once Spring Quarter rolled around, Delta Sigma Phi put on their annual Basketball Marathon to raise money for the March of Dimes. The brothers also enjoyed their annual Carnation Ball in May along with alumni and significant others.





lambda chi alpha

This has been another amazing year for Lambda Chi Alpha. We started our year by strengthening the bonds with our alumni, who returned to assist us in further improving the chapter house. We continued to help local charities by collecting food from around Terre Haute to support the Light-house Mission of Terre Haute; hosting a Christmas party for the children of Ryves Hall; and, for the first time, busting up pumpkins in order to raise money for the Soggy Donuts Fund. This has been a very special year for us as we have played a role in expanding our brotherhood not only at Rose, but at ISU as well. We have assisted them in their recolonization and will continue to assist them by serving as their big brother chapter. We are all looking forward to our continued growth as brothers and as people and eagerly await what next year will bring.





phi gamma delta

The men of Phi Gamma Delta have been involved in many events and activities throughout the Rose-Hulman community this year. Fiji had a cumulative GPA above 3.0 for another year while sixty of the chapter's members took part in a sport this year, with many receiving awards. Members also took part in numerous service activities, from "Clothe-a-Child" to "Neighborhood Cleanup", but the largest service event was the second annual "Fiji Football Run" which raised \$14,000 for the Wabash Valley Red Cross. Fiji also pledged 18 freshman in the fall.



pi kappa alpha



Pi Kappa Alpha has a powerful presence on campus. Members are actively involved with community service activities, Intervarsity, and sporting events. Pike brought in a large group of brothers to volunteer at Bikes for Tykes, and cheered on the Rose-Hulman girls' volleyball team throughout the season to victory at their conference.





sigma nu

The men of Sigma Nu started the year with more members than previous years and a goal of increasing membership further. Rush went great with a few main events. As always, Sigma Nu held its annual Jello-Wrestling rush event—actives and rushes alike enjoyed the outdoor event with music and food. Other prominent rush events included an alumni sponsored pig roast and a day spent off-campus paintballing.

During winter quarter, the brothers decided to launch a new philanthropy project by collecting clothes around campus and donating to the Salvation Army. This philanthropy event will occur annually along with Sigma Nu's main philanthropy event, Volleybash, which is a volleyball tournament with proceeds going to 13th and Chestnut.

Other activities the brothers of Sigma Nu participate include our annual event, DHDt—Die Hard Daiquiri Tuesday—and Walkout. On DHDt, the brothers of Sigma Nu wake up early on a Tuesday in the spring and set up a 100 foot long slip-n-slide in the front yard and enjoy the spring-time weather after a long winter quarter. Walkout is where the chapter visits another Sigma Nu at another university. Last year the brothers enjoyed a fun-filled night at Knox College.

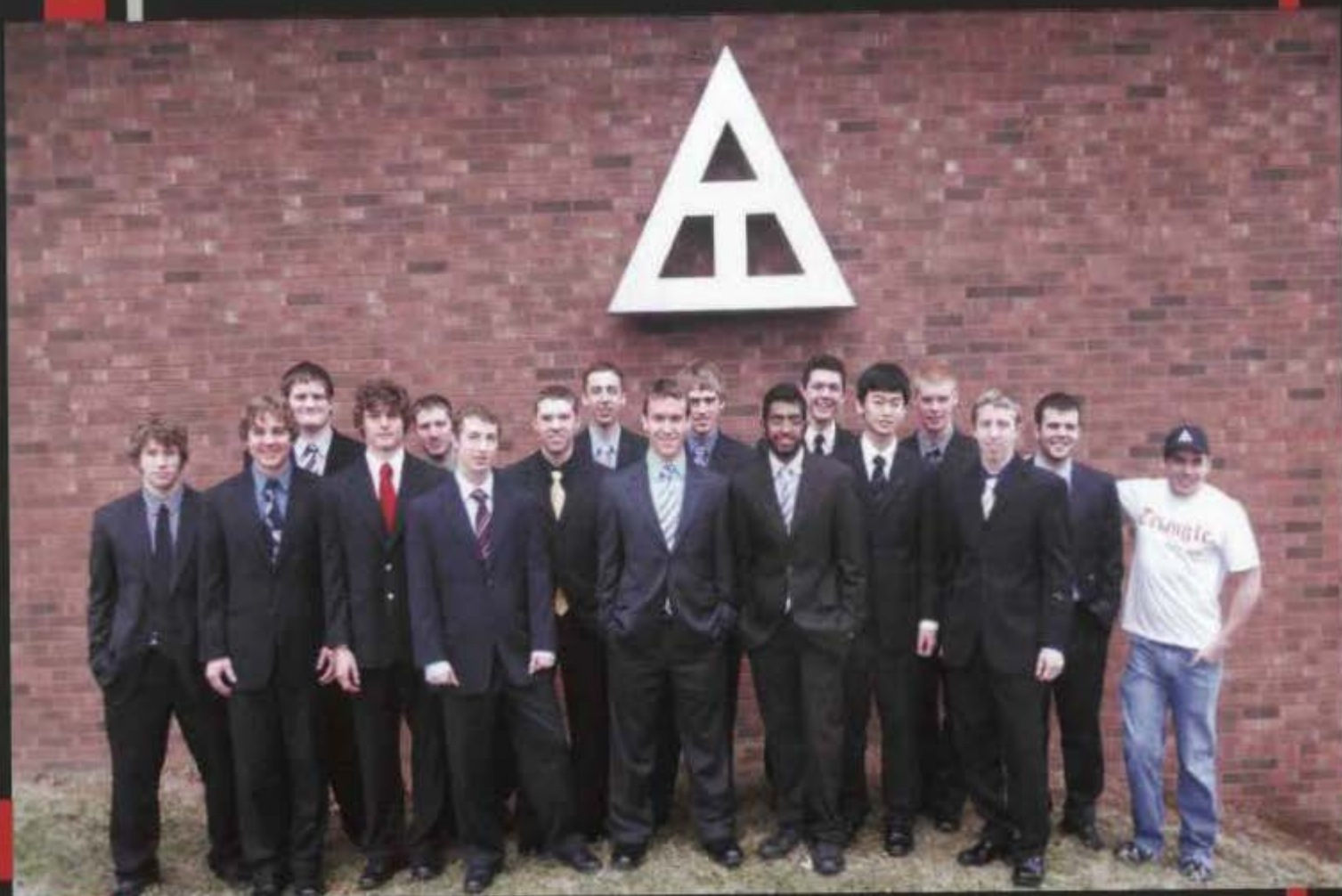


theta xi



Another great year is come and gone for Triangle Fraternity. This year the men of Triangle were again involved in many activities outside of their school work. Many members were active participants in giving back to the community through work with the Ronald McDonald House, Bikes for Tykes, Students Against Drunk Driving Games, the Trees organization, and many more events. In spirit of all work and no play makes for a dull Engineer, Triangle's members took time to themselves to reach out and expand their horizons. Whether it was a trip to the beaches of Florida, skiing on the mountains of Colorado, or simply dinner with brothers, there was no lack of fun had for Triangle this year!

triangle



clubs & organizations







actuarial club

american
institute of
chemical engineers



american society
of civil engineers



asian society
of engineers & scientists



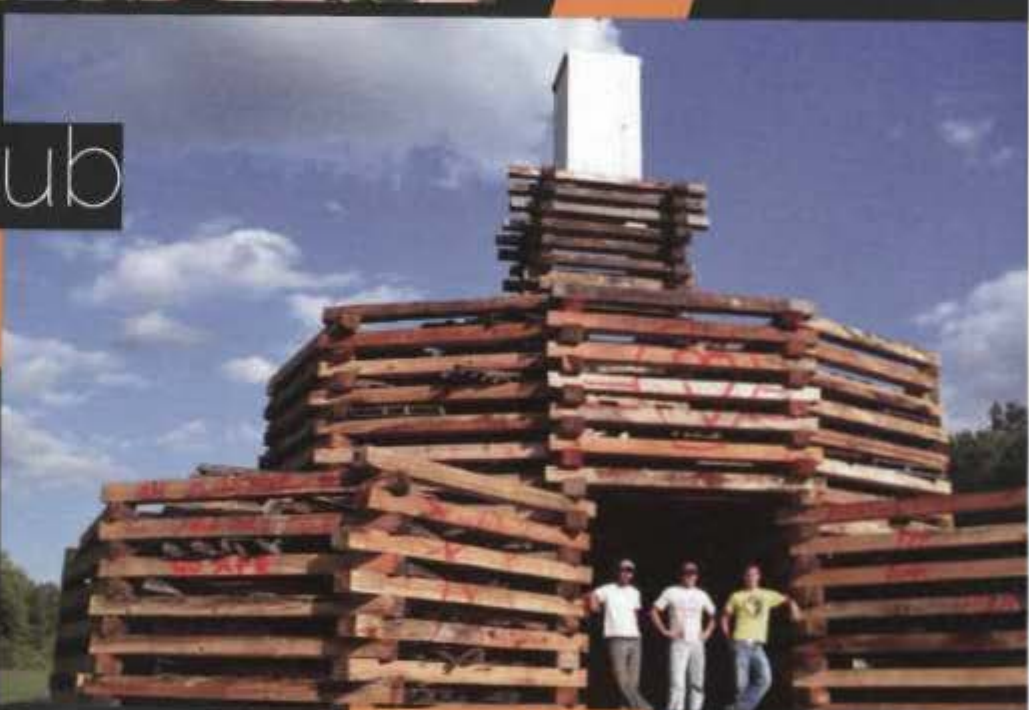
board games club



blue key national honor fraternity



bonfire club

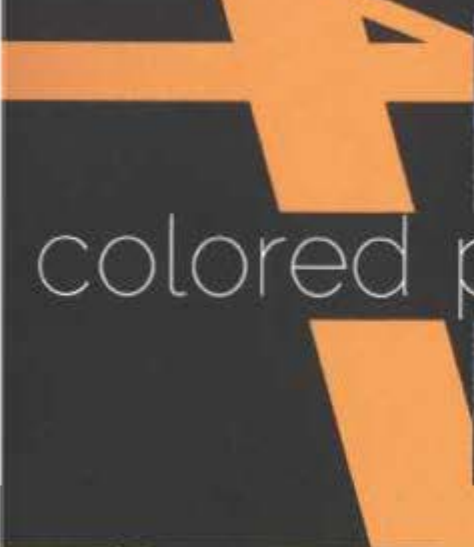


circle-k





climbing club



colored pants club



creative writing club



drama club

eta kappa nu



engineers
without
borders



fancy tea-time society



fellowship of
christian athletes



fencing club



habitat for humanity



human powered vehicle team



international student association



international society of pharmaceutical engineers



jewish culture club



martial arts club

national society of black engineers





RHIThm



society of
automotive engineers



student
government
association



society of women engineers

swing dance club



the rose thorn



triathlon club



ultimate frisbee club





upsilon pi epsilon



volleyball club



water polo club

A group of approximately 15 young adults, both men and women, posing for a group photo outdoors. They are arranged in three rows: some are standing in the back, some are kneeling or sitting in the middle, and others are sitting on the ground in the front. They are wearing casual clothing like t-shirts, hoodies, and jeans. The background shows some greenery and a building.

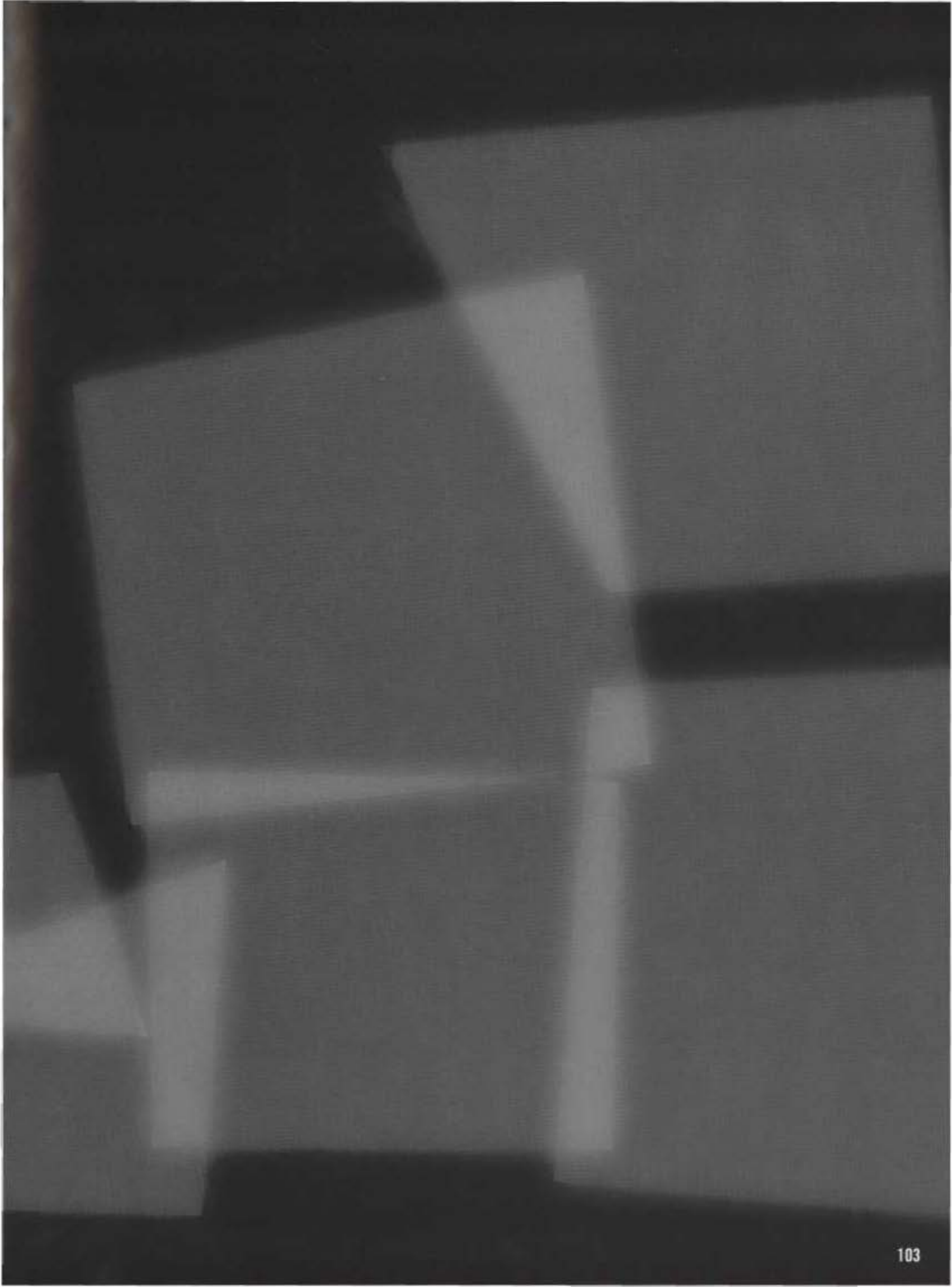
wmhd radio

A group of about 10 young women posing for a group photo indoors. They are arranged in two rows, with some standing in the back and others sitting or kneeling in the front. Several of the women are holding lacrosse sticks. They are wearing various casual clothes, including t-shirts and a tank top. The background appears to be a gymnasium or a similar indoor sports facility.

women's lacrosse

ads & dedications

A dark, high-contrast photograph of a person sitting at a table. The person is mostly in shadow, with their face and hands faintly visible. A bright light source, possibly a window or a lamp, creates a strong, horizontal highlight across the table's surface, separating it from the dark background. The overall mood is contemplative and artistic.



Michael C. Meyer



The Aizu Gang



Congratulations on experiencing and accomplishing so much in your four years at Rose-Hulman. You delved into the Japanese culture and language to the extent that you were able to take classes in Japanese. You worked hard and maintained good grades while taking challenging classes. You performed well at your summer internship so much that they wanted you to work there during the winter and then permanently. We are so proud of you, your independence and your inquisitiveness. Continue to challenge yourself and do your

best. We love you, Mom, Dad and Natasha



Christmas 2011



Joey



Spicy soup



No reservations...



Eagle's Nest



That first beer in Germany before college



Miyajima



Finished BUB's burger



Driving to college



Boomer in Sanibel

Congratulations Eric!

Success is focusing the full power of all you are on what you have a burning desire to achieve. To a bright future! Love, Mom, Dad and Alex



Congratulations

We delight in your many amazing accomplishments and in the loving and caring young woman that you have become. You are a beautiful blessing in our lives.



Love you
to infinity!
XOXO!
Mom and
Dad

Shannon
Butler!

Charles McAnany



"I am the very model
of a modern Major-Chemical."

Michael T. Schiff



We are so proud of the work you are doing. Your dedication and work ethic continue to amaze us. Be proud of all you have done and keep looking forward to the outstanding future ahead of you!

Love, Mom & Dad

Jillian Hufgard



We are all very proud of all of your accomplishments. It's good to know you can still fly

This is goodbye... for now

The book you're holding is the last in a long line of Modulus yearbooks. The Modulus has chronicled Rose-Hulman's history since 1892, with a few stops and starts along the way. As of now, we've hit another stopping point. Maybe this one's for just a little while; maybe, it's forever. But right now, that doesn't matter. What matters is the book in your hands, and the memories that it brings to mind. So, I hope you enjoy our little look back at some of the many things that make Rose so very special.

This Modulus would not have been possible without this incredibly awesome, talented, and committed staff:

Dillon Dou

From your amazing cover designs to your Photoshop wizardry, you helped give this book its artistic vision.

April Riddett

Your theme ideas and relentless ability to crank out gorgeous pages made this book a reality—a beautiful, color-filled reality.

Richard Thai, Alanna Nacar, and Ben Fuller
You all did whatever was needed, from copy to photos to layout—thank you.

Likewise, we wouldn't be where we are today without our dedicated advisers:

Dale Long

You kept our feet on the ground and our heads above water—your business savvy was sorely needed and much appreciated.

Dr. Anne Watt

Three years on, and you're still with us. Thanks for believing in us in the beginning, and for sticking around until the end.

So long, and thanks for sharing your memories with us.

Alex Mullans—Modulus Editor, 2010-2012